

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. Of: ANDRE et al.

Serial No.: 10/607,912

Filed: June 27, 2003

For: THIN LAYER OF HAFIUM OXIDE AND DEPOSIT PROCESS

Group: 1762

Confirmation No. 8153

Examiner: Markham, Wesley D.

DOCKET: BREV 13186 DIV

MAIL STOP ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

Dear Sir:

The Notice of Allowance mailed March 20, 2006 is at hand. Applicants note that the Examiner did not initial and date the PTO-892 filed with the Information Disclosure Statement mailed June 27, 2003. An additional copy of the Information Disclosure Statement is enclosed for the convenience of the Patent Office.

Respectfully submitted,

Norman P. Soloway  
Attorney for Applicants  
Reg. No. 24,315

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 14, 2006, at Tucson, Arizona.

By Kim Good

NPS:kg

HAYES SOLOWAY P.C.  
3450 E. SUNRISE DRIVE,  
SUITE 140  
TUCSON, AZ 85718  
TEL. 520.882.7623  
FAX. 520.882.7643

175 CANAL STREET  
MANCHESTER, NH 03101  
TEL. 603.668.1400  
FAX. 603.668.8567



 **COPY**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLN. OF: ANDRE ET AL.

FILED: June 27, 2003

FOR: THIN LAYER OF HAFNIUM OXIDE AND DEPOSIT PROCESS

DOCKET: BREV 13186 DIV

MAIL STOP PATENT APPLICATION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

The present application is a divisional of U.S. Patent Application Serial No. 09/830,380, filed April 25, 2001. Applicant hereby attaches copies of Form PTO-1449 and Form PTO 892 from the parent application. Copies of the various prior art references listed in the attached Forms PTO-1449 and PTO-892 are not being furnished, since they are available in the parent application. Accordingly, it is respectfully submitted that no copies of these references are believed necessary. The claims in the present application are believed to be patentably distinguished over these references.

This information disclosure statement is being made pursuant to the duty of disclosure imposed by law and formulated in 37 CFR 1.56(A). No representation is made that the information thus disclosed in fact constitutes prior art or that it is the closest prior art, inasmuch as 37 CFR 1.56(A) relies on a materiality concept which depends on subjectivity.

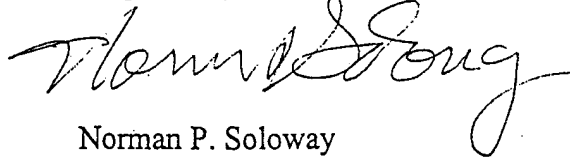
YES SOLOWAY P.C.  
30 W. CUSHING ST.  
TUCSON, AZ 85701  
TEL. 520.882.7623  
FAX. 520.882.7643

75 CANAL STREET  
DORCHESTER, NH 03101  
TEL. 603.668.1400  
FAX. 603.668.3567

 **COPY**

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account No. 08-1391.

Respectfully submitted,



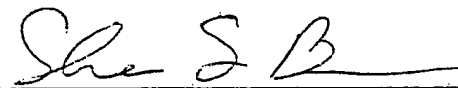
Norman P. Soloway  
Attorney for Applicant  
Reg. No. 24,315

 COPY

CERTIFICATE OF EXPRESS MAILING

"Express Mail" Mailing Label No: EU235897748US  
Date of Deposit June 27, 2003

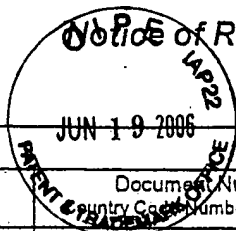
I hereby certify that this paper and the papers listed thereon are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above, and is addressed to: MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of person mailing   
Name of person mailing Shauna Bronson

 COPY

YES SOLOWAY.P.C.  
30 W. CUSHING ST.  
TUCSON, AZ 85701  
TEL. 520.882.7623  
FAX. 520.882.7643  
  
75 CANAL STREET  
WINCHESTER, NH 03101  
TEL. 603.668.1400  
FAX. 603.668.2567

**Office of References Cited**



Application/Control No.

09/830,380

Applicant(s)/Patent Under  
Reexamination  
ANDRE ET AL.

Examiner

Tamra L. Dicus

Art Unit

1774

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
✓	A	US-5,399,435	03-1995	Ando et al.	428/428
✓	B	US-5,623,375	04-1997	Floch et al.	359/871
✓	C	US-5,691,044	11-1997	Oyama et al.	313/461
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

## BREV 13.

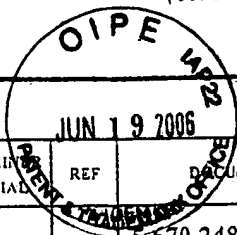
Applicant(s)

ANDRE et al

Filing Date

APRIL 25, 2001

Group Art Unit
----------------



## JUN 19 2006

[illegible]

## FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	0 486 475 A2	03-03-89	EUROPE	C 03 C	17/23		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Influence of Microstructure on Laser Damage Threshold of IBS Coatings" by C. J. Stolz et al SPIE Vol. 2714 XP-002111763, pgs. 351-359
	"Thin Films for Optical Systems" edited by F.R. Flory Ecole Nationale Supérieure de Physique de Marseille, Marseille, France Pgs. 521-549

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use separate sheets if necessary)

BREV 131

Applicant(s)

ANDRE et al

Filing Date

APRIL 25, 2001

Group Art Unit

\*EXAMINER  
INITIAL

JUN 19 2006

PATENT & TRADEMARK OFFICE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

"Optical Coatings Deposited by Reactive Ion Plating" by A.J. Waldorf et al  
Applied Optics/October 1, 1993/Vol. 32, No. 28  
pgs. 5583-5593

"Optical Coatings for High-Power Neodymium Lasers" by B. Brauns et al  
Sov. J. Quantum Electron 18 (10) Oct. 1988, c 1989 American Institute of Physics  
pgs. 1286-1290

"Investigation of Optical Damage Mechanisms in Hafnia and Silica Thin Films Using Pairs of Subnanosecond Laser Pulses with Variable Time Delay"  
by L.L. Chase, et al  
J. Appl. Phys. 71 (3) February 1, 1992/American Institute of Physics  
pgs. 1204-1208

"Characterization of Defect Geometries in Multilayer Optical Coatings" by R.J. Tench et al  
J. Vac. Sci. Technol. A 12(5), Sep/Oct 1994  
1994 American Vacuum Society  
pgs. 2808-2813

"Reactive Evaporation of Low-Defect Density Hafnia" by R. Chow et al  
Applied Optics/ October 1, 1993/ Vol. 32, No. 28/ pgs. 5567-5574

"Stress and Environmental Shift Characteristics of HfO<sub>2</sub>/SiO<sub>2</sub> Multilayer Coatings" by J.F. Anzellotti et al  
Proceedings Reprint/SPIE - The International Society for Optical Engineering  
Reprinted from 28th Annual Boulder Damage Symposium proceedings "Laser-Induced Damage in Optical Materials: 1996"  
October 7-9, 1996, Boulder, Colorado  
SPIE Vol. 2966, pgs. 258-264

"Study of the Structure and Properties of Thick Vacuum Condensates of Nickel, Titanium, Tungsten, Aluminium Oxide and Zirconium Dioxide" by B.A. Movchan et al  
F metal. metalloved., 28, No. 4, 653-660, 1969  
pgs. 83-90

"Nano Absorbing Centers: A Key Point in Laser Damage of Thin Films" by J. Dijon et al  
SPIE Vol. 2966, pgs 315-325

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.